Tyn Myint-U
Lokenath Debnath

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Linear Partial Differential Equations
for Scientists and Engineers

Fourth Edition

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S Marginson

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Linear Partial Differential Equations for Scientists and Engineers Tyn Myint-U,Lokenath Debnath,2006-12-15 This significantly expanded fourth edition is designed as an introduction to the theory and applications of linear PDEs The authors provide fundamental concepts underlying principles a wide range of applications and various methods of solutions to PDEs In addition to essential standard material on the subject the book contains new material that is not usually covered in similar texts and reference books It also contains a large number of worked examples and exercises dealing with problems in fluid mechanics gas dynamics optics plasma physics elasticity biology and chemistry solutions are provided **An Elementary Course on Partial Differential Equations** Aftab Alam,Mohammad Imdad,2023-01-05 Partial differential equations are a vital part of any course in pure or applied mathematics This book will be invaluable to anyone looking for a lucid but comprehensive introduction to PDEs Designed to strike a balance between theory and practical problems it covers all major methods as well as their historical backgrounds theoretical rigour and geometric significance The book is divided into three parts It starts with basic topics like ordinary differential equations multivariable calculus and geometry This is followed by important techniques to solve certain types of partial differential equations The last part is devoted to first second and higher order PDEs The chapters have been arranged to help students develop their knowledge gradually and systematically Each method is discussed through theoretical descriptions in the form of theorems followed by illustrative problems to help the readers Finally numerous solved examples and practice problems helps the student learn to apply this knowledge **Robust Engineering Designs of Partial Differential Systems and Their Applications** Bor-Sen Chen,2021-12-22 Most systems in science engineering and biology are of partial differential systems PDSs modeled by partial differential equations Many books about partial differential equations have been written by mathematicians and mainly address some fundamental mathematic backgrounds and discuss some mathematic properties of partial differential equations Only a few books on PDSs have been written by engineers however these books have focused mainly on the theoretical stabilization analysis of PDSs especially mechanical systems This book investigates both robust stabilization control design and robust filter design and reference tracking control design in mechanical signal processing and control systems to fill a gap in the study of PDSs Robust Engineering Designs of Partial Differential Systems and Their Applications offers some fundamental background in the first two chapters The rest of the chapters focus on a specific design topic with a corresponding deep investigation into robust H filtering stabilization or tracking design for more complex and practical PDSs under stochastic fluctuation and external disturbance This book is aimed at engineers and scientists and addresses the gap between the theoretical stabilization results of PDSs in academic and practical engineering designs more focused on the robust H filtering stabilization and tracking control problems of linear and nonlinear PDSs under intrinsic random fluctuation and external disturbance in industrial applications Part I provides backgrounds on PDSs such as Galerkin s and finite difference methods

to approximate PDSs and a fuzzy method to approximate nonlinear PDSs Part II examines robust H filter designs for the robust state estimation of linear and nonlinear stochastic PDSs And Part III treats robust H stabilization and tracking control designs of linear and nonlinear PDSs Every chapter focuses on an engineering design topic with both theoretical design analysis and practical design examples   Effective Dynamics of Stochastic Partial Differential Equations Jinqiao Duan,Wei Wang,2014-03-06 Effective Dynamics of Stochastic Partial Differential Equations focuses on stochastic partial differential equations with slow and fast time scales or large and small spatial scales The authors have developed basic techniques such as averaging slow manifolds and homogenization to extract effective dynamics from these stochastic partial differential equations The authors experience both as researchers and teachers enable them to convert current research on extracting effective dynamics of stochastic partial differential equations into concise and comprehensive chapters The book helps readers by providing an accessible introduction to probability tools in Hilbert space and basics of stochastic partial differential equations Each chapter also includes exercises and problems to enhance comprehension New techniques for extracting effective dynamics of infinite dimensional dynamical systems under uncertainty Accessible introduction to probability tools in Hilbert space and basics of stochastic partial differential equations Solutions or hints to all Exercises

Handbook of Exact Solutions to Mathematical Equations Andrei D. Polyanin,2024-08-26 This reference book describes the exact solutions of the following types of mathematical equations Algebraic and Transcendental Equations Ordinary Differential Equations Systems of Ordinary Differential Equations First Order Partial Differential Equations Linear Equations and Problems of Mathematical Physics Nonlinear Equations of Mathematical Physics Systems of Partial Differential Equations Integral Equations Difference and Functional Equations Ordinary Functional Differential Equations Partial Functional Differential Equations The book delves into equations that find practical applications in a wide array of natural and engineering sciences including the theory of heat and mass transfer wave theory hydrodynamics gas dynamics combustion theory elasticity theory general mechanics theoretical physics nonlinear optics biology chemical engineering sciences ecology and more Most of these equations are of a reasonably general form and dependent on free parameters or arbitrary functions The Handbook of Exact Solutions to Mathematical Equations generally has no analogs in world literature and contains a vast amount of new material The exact solutions given in the book being rigorous mathematical standards can be used as test problems to assess the accuracy and verify the adequacy of various numerical and approximate analytical methods for solving mathematical equations as well as to check and compare the effectiveness of exact analytical methods

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